

FIG. 3

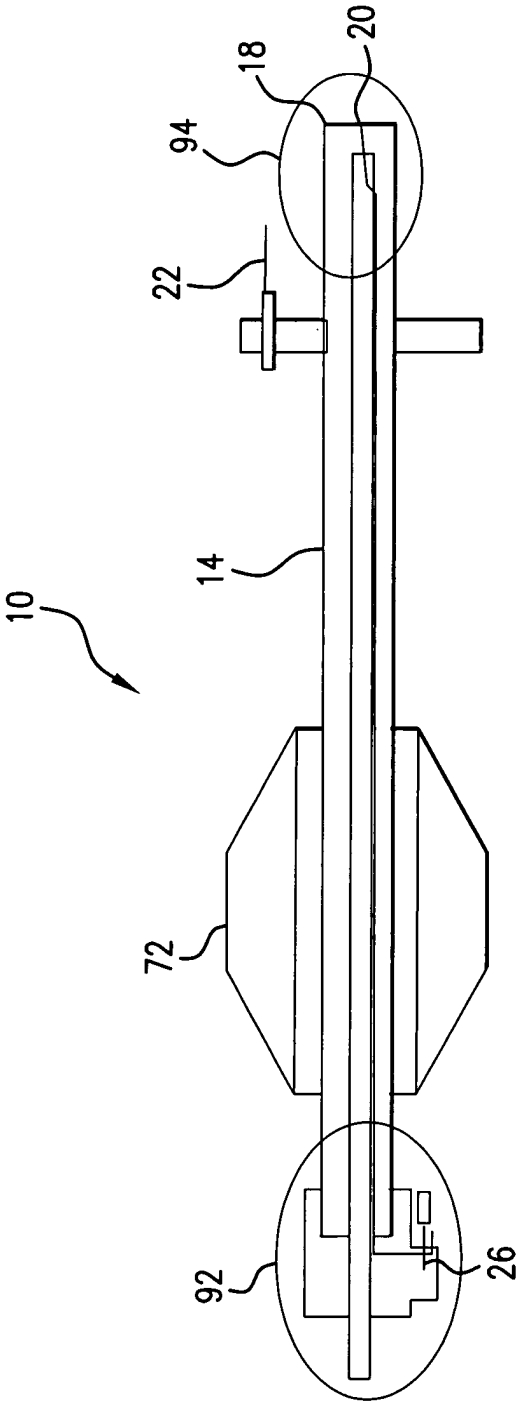


FIG. 4

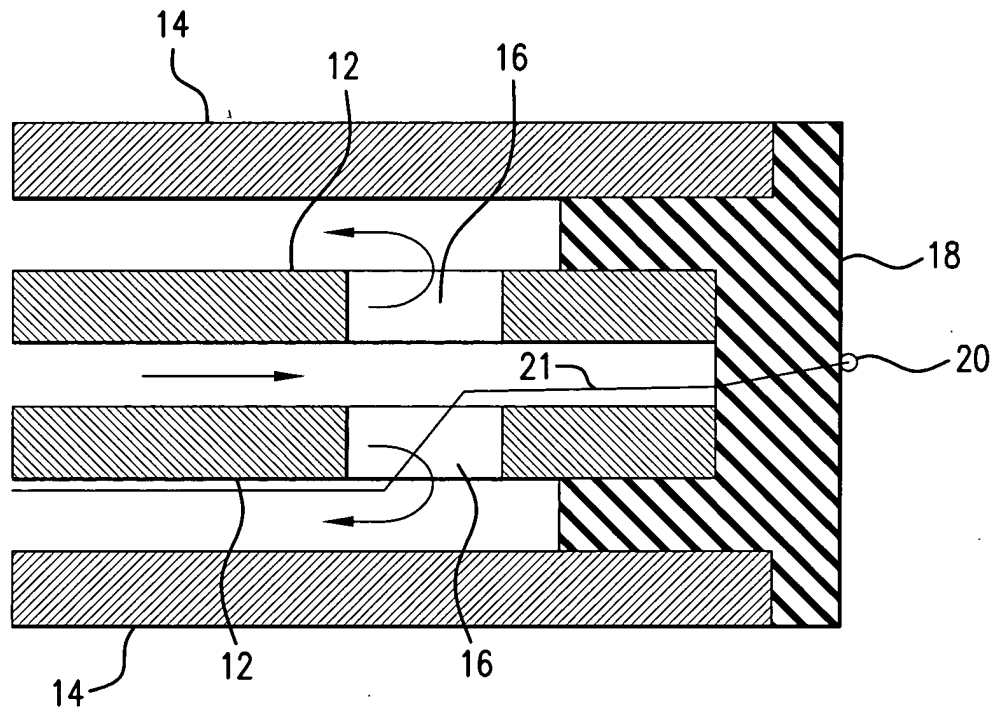


FIG.5

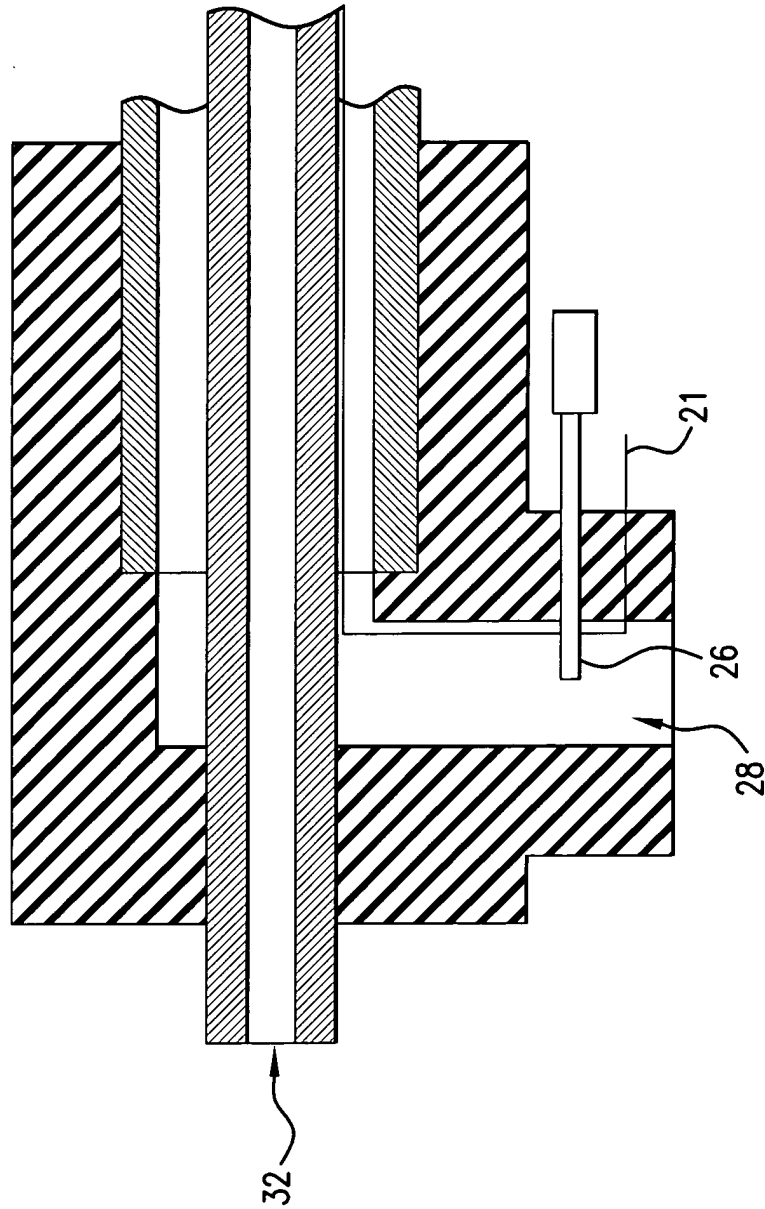


FIG. 6

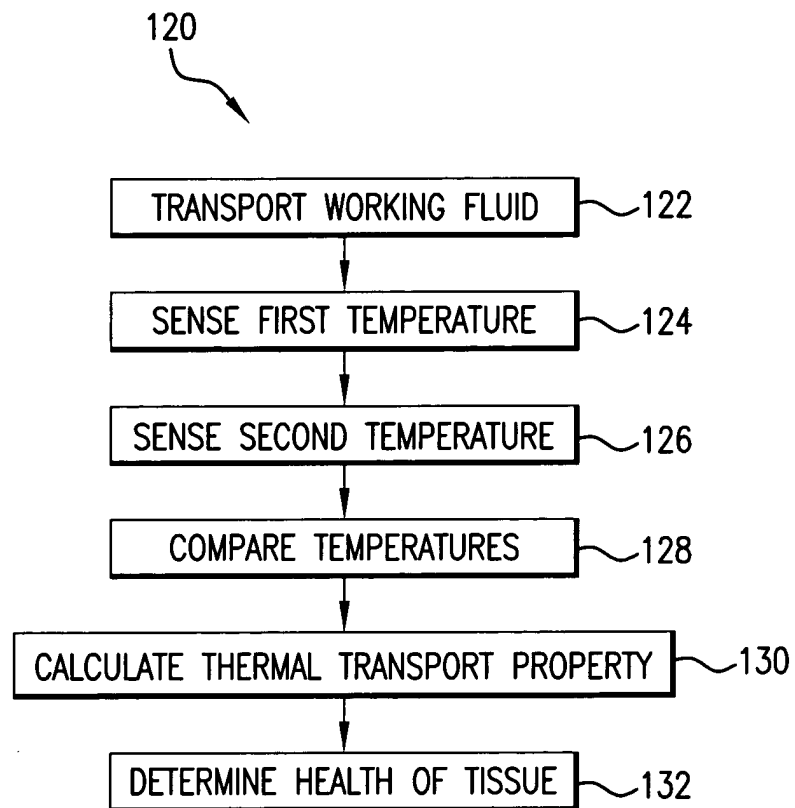


FIG.7

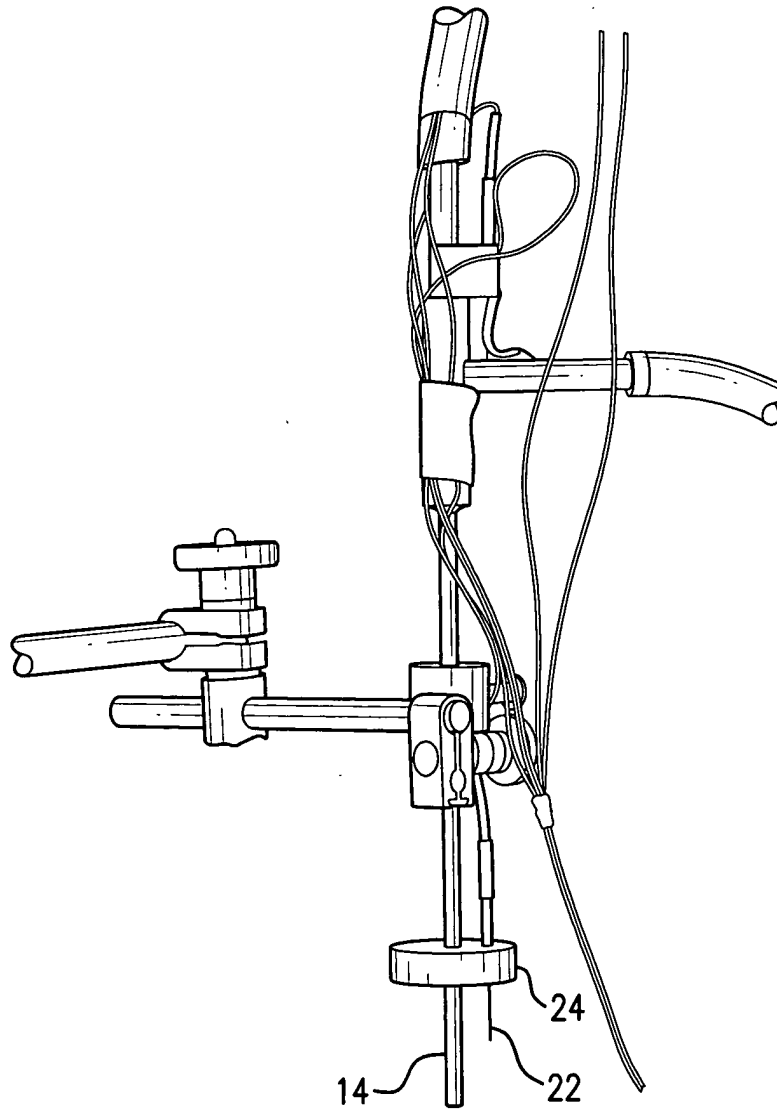


FIG.8

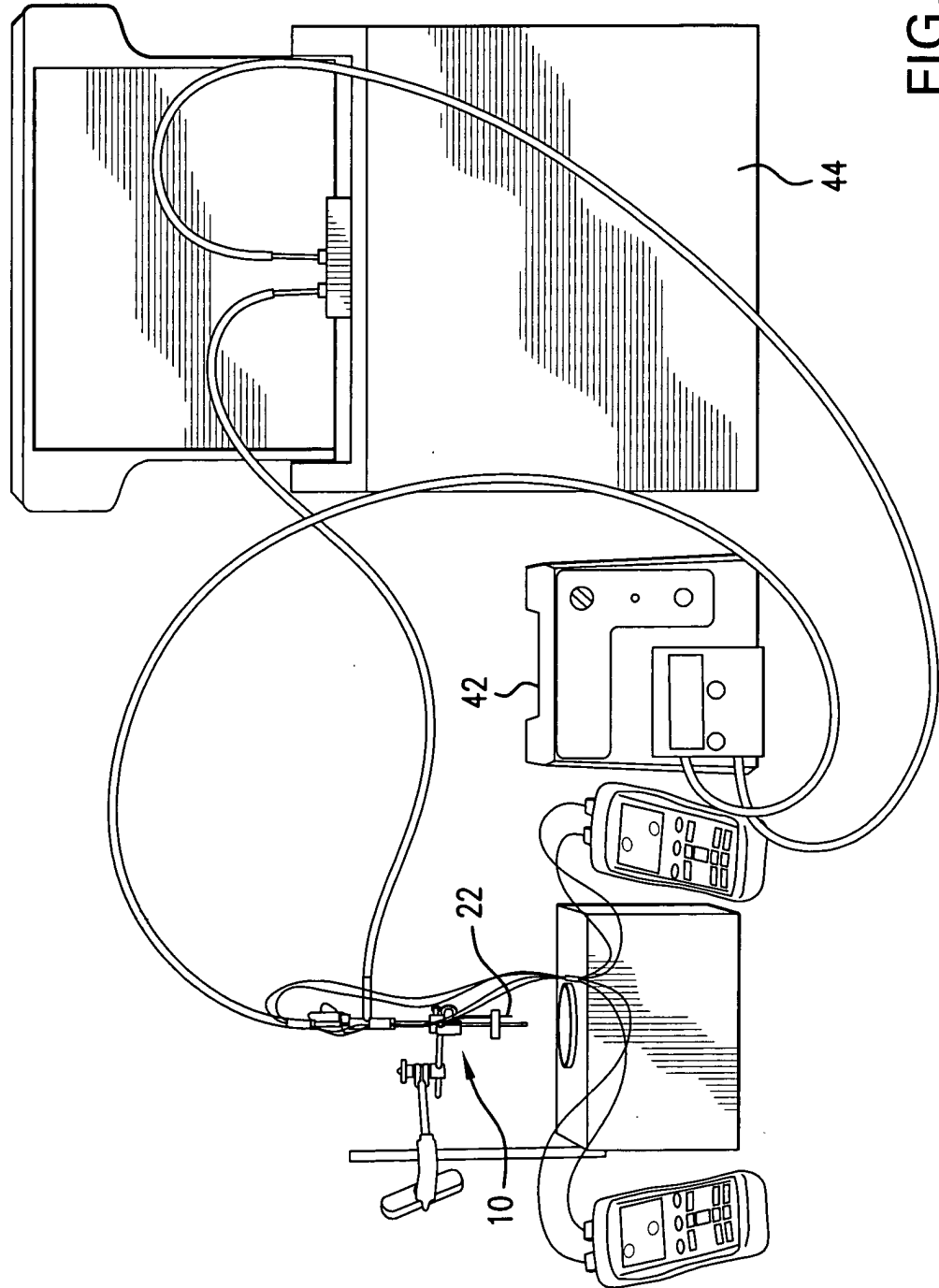


FIG. 10

			Cooling time (s)=	300	600	900	1200
			Brain radius (m)=	0.055	0.055	0.055	0.055
			Brain volume (m3)=	0.000697	0.000697	0.000697	0.000697
			Brain mass (kg)=	0.752663	0.752663	0.752663	0.752663
			Required cooling capacity (W)=m*Cp*DT=	48.30	24.15	16.10	12.07
<i>Calorimetric Experiments</i>							
Time (minute)	Tip Temperature (C)	Calorimeter temperature (C)			Flow rate (mL/min)	Water (gram)	
1	10.4	23.3	To (C) =	23.3	170	50	
2	10.2	23.0					
3	9.7	22.5					
4	9.6	21.9					
5	9.2	21.2					
6	9.1	20.5					
7	8.7	19.7					
8	8.5	19.0					
9	8.2	18.3					
10	8.0	17.8					
			Tf (C) =	16.1			
	Cooling capacity (W)=m*Cp*DT=		2.508				

FIG.10-1

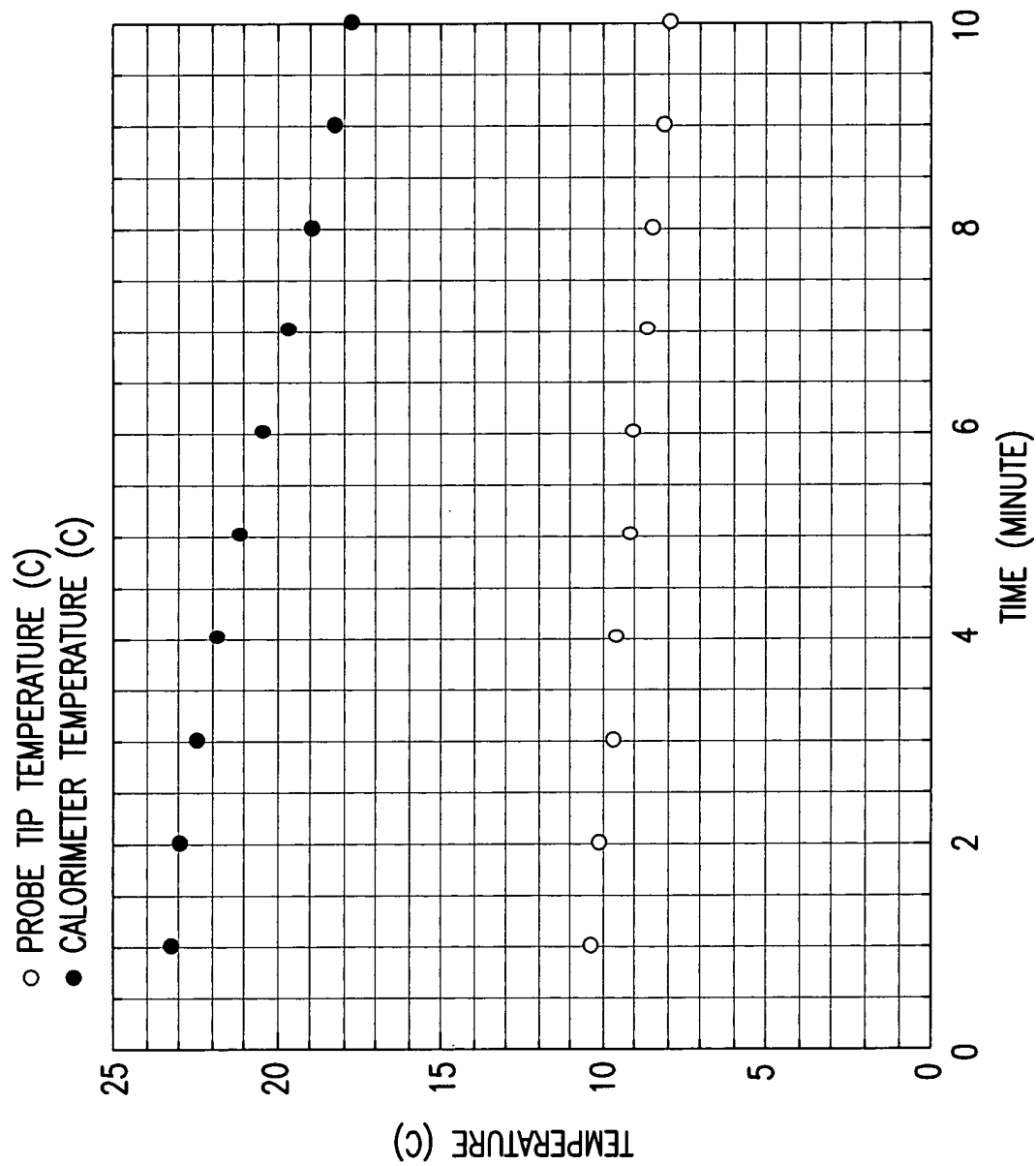


FIG.11

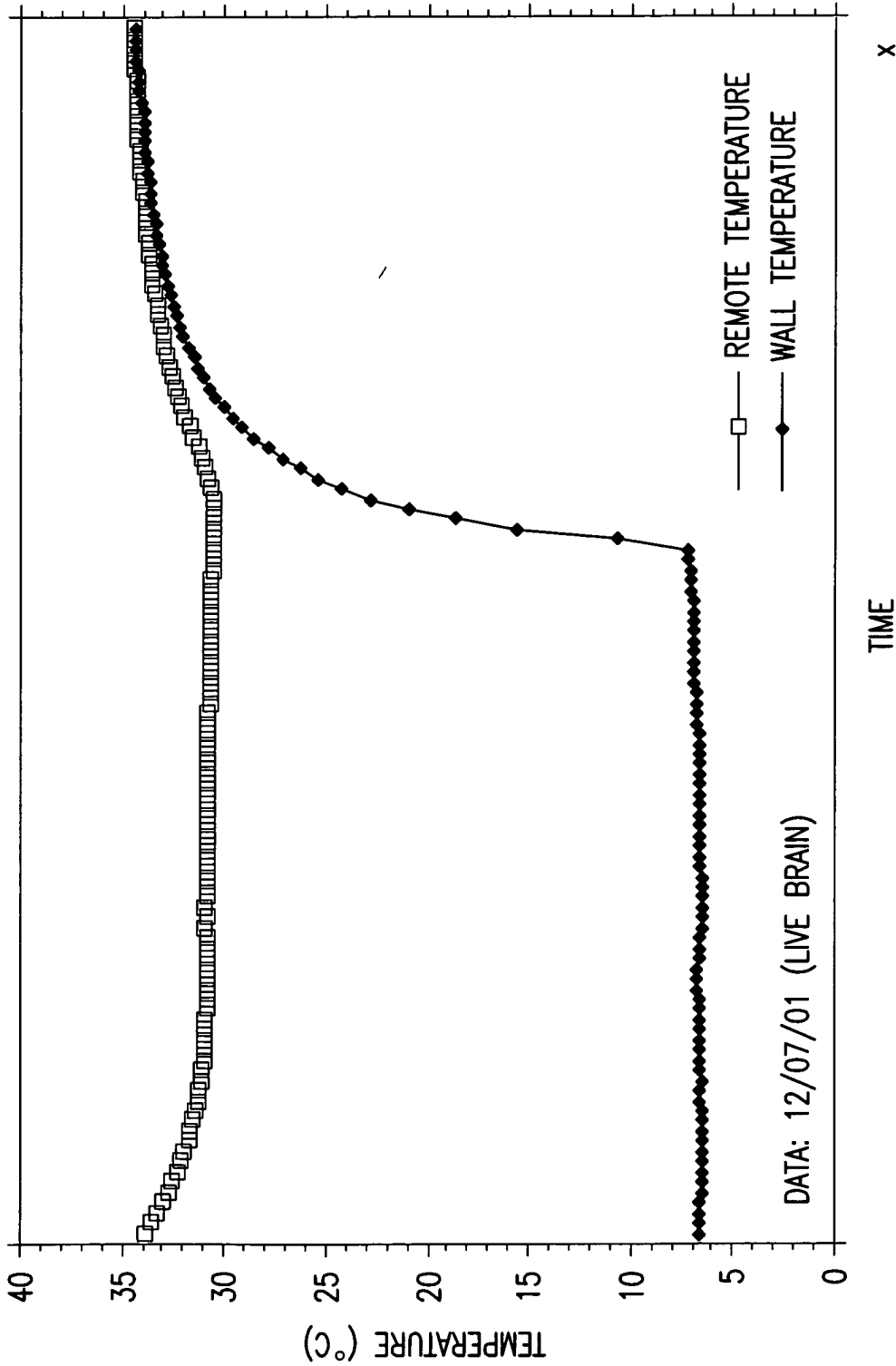


FIG.12

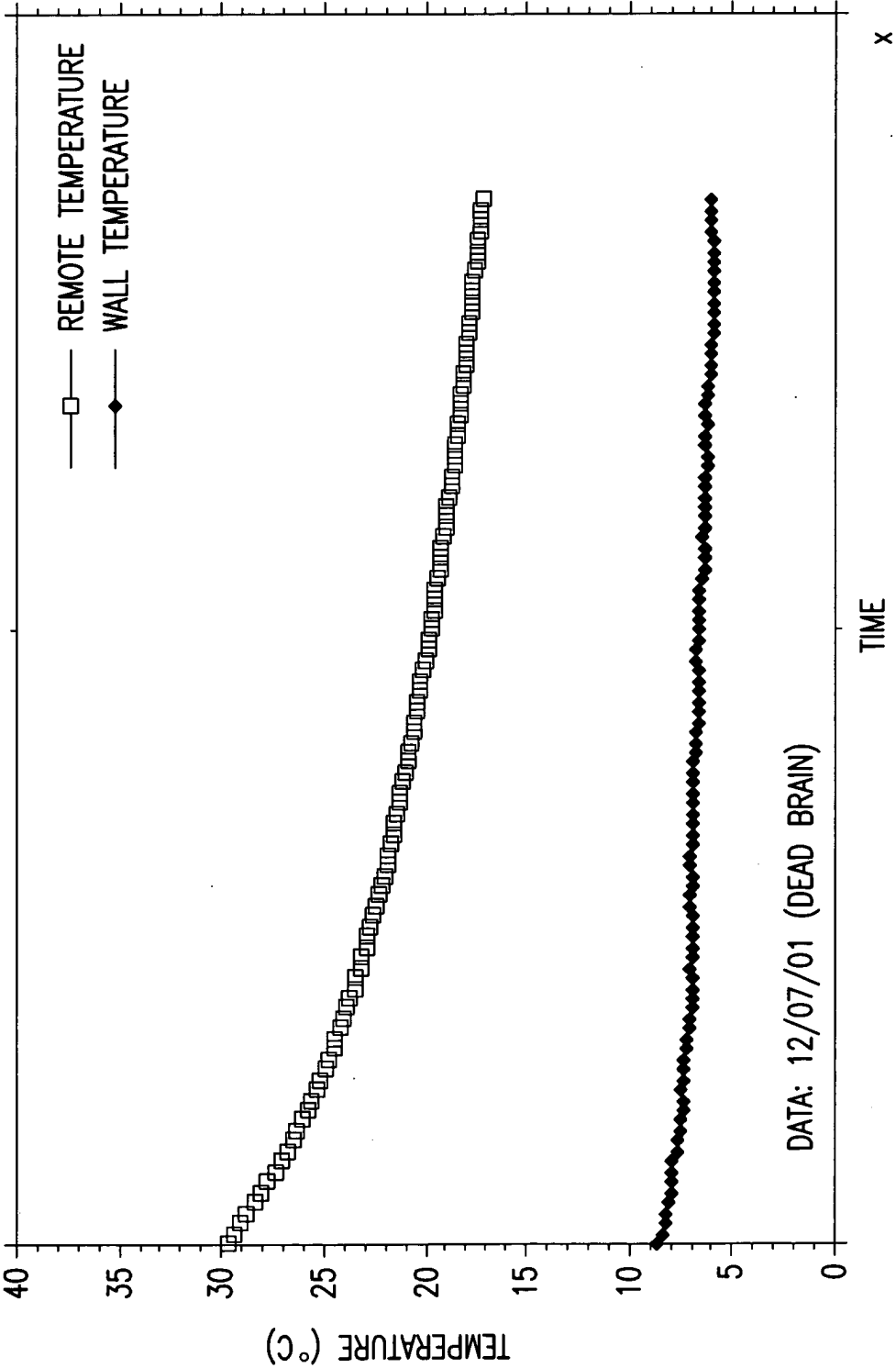


FIG.13

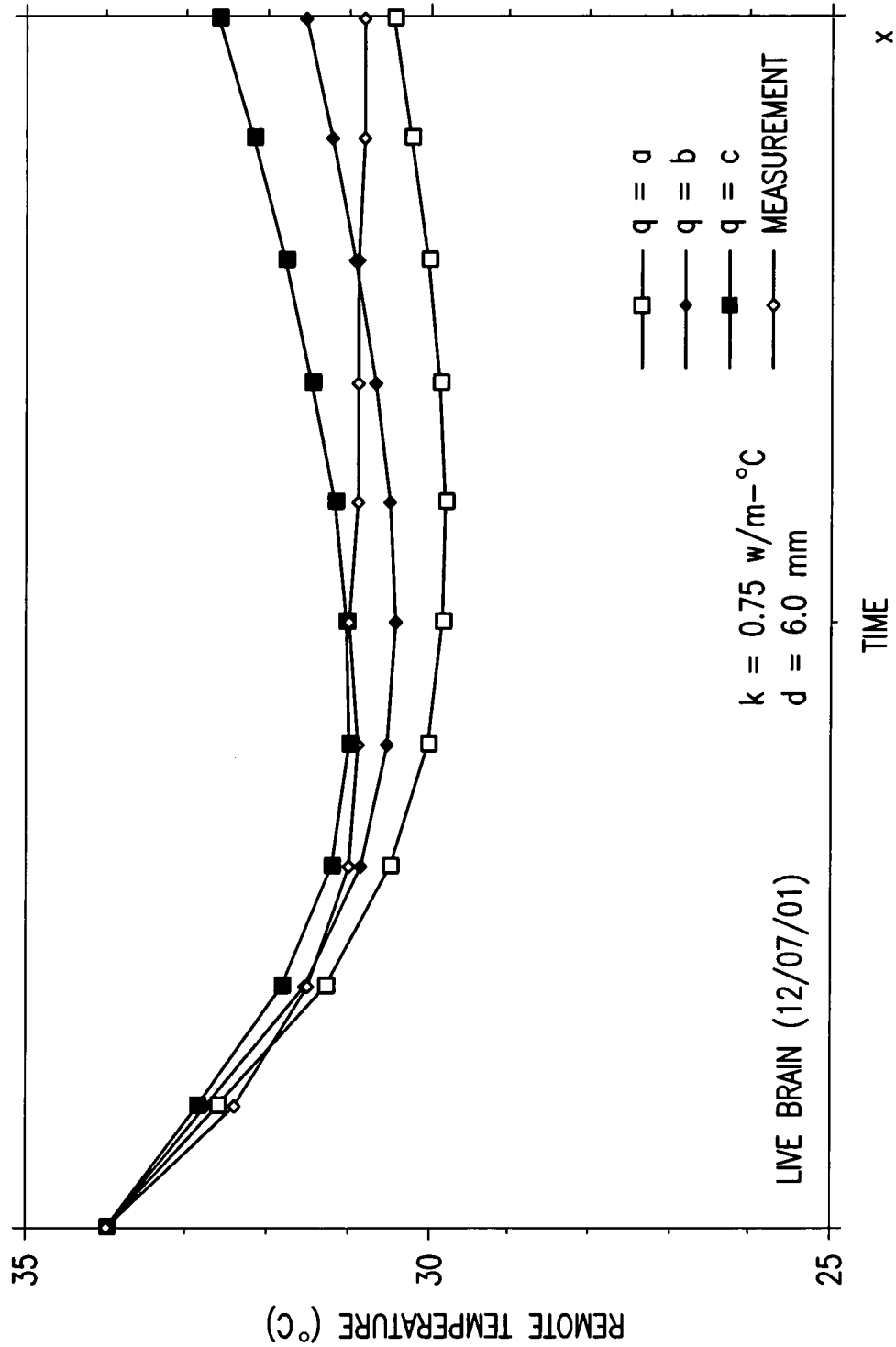


FIG.14

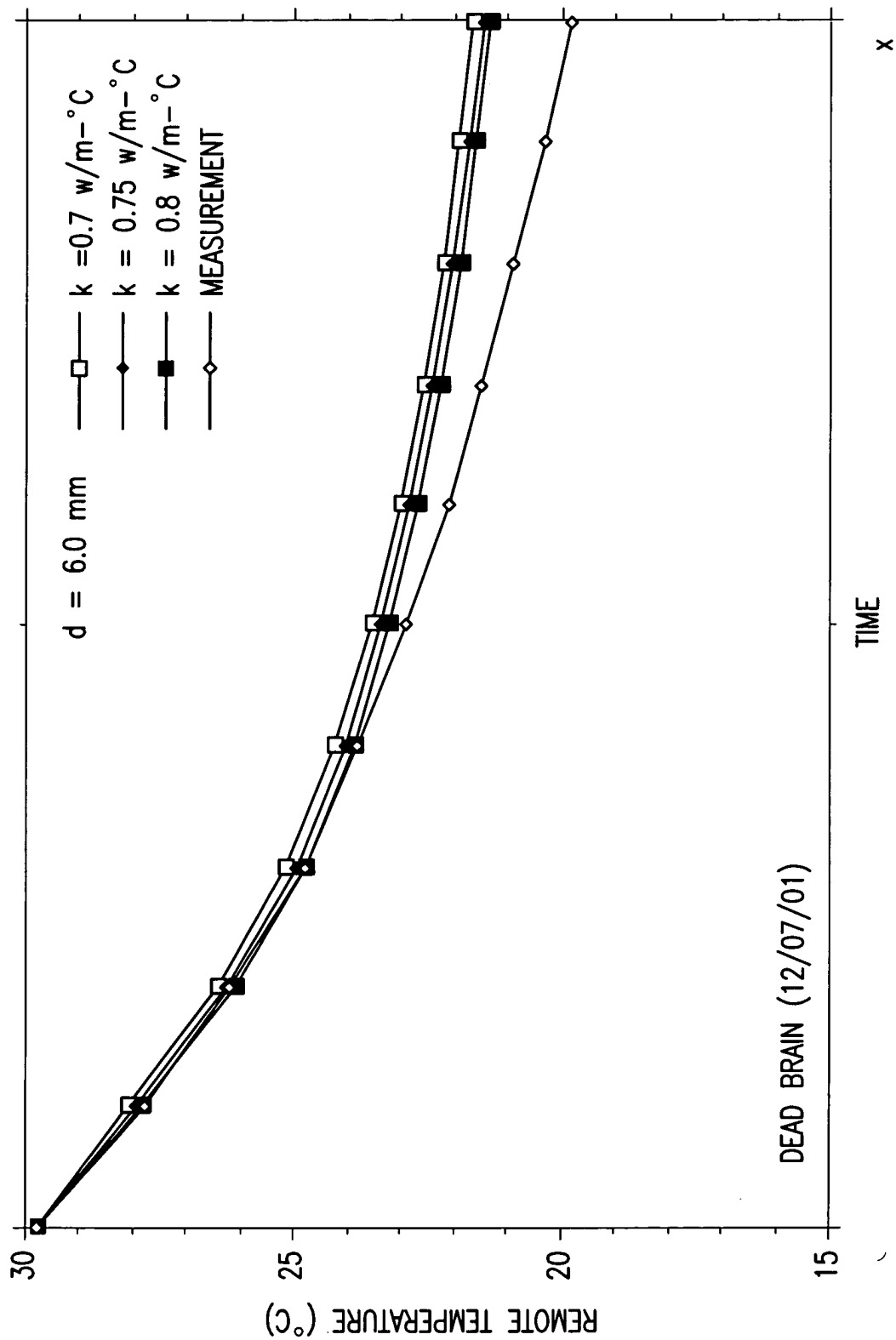


FIG.15